IN THE CLAIMS

- 1. (currently amended) A method of screening for therapeutic agents useful in the treatment of a disease selected from the group comprised in a group of diseases consisting of cardiovascular disorders, hematological disorders, inflammatory diseases, metabolic diseases, neurological disorders, urological disorders, respiratory diseases, cancer disorders and reproduction disorders in a mammal, comprising the steps of
 - i) contacting a test compound with a GPR85 polypeptide, and
 - ii) detecting detect binding of said test compound to said GPR85 polypeptide.
- 2. (currently amended) A method of screening for therapeutic agents useful in the treatment of a disease selected from the group comprised in a group-of-diseases-consisting of cardiovascular disorders, hematological disorders, inflammatory diseases, metabolic diseases, neurological disorders, urological disorders, respiratory diseases, cancer disorders and reproduction disorders in a mammal, comprising the steps of
 - i) determining the activity of a GPR85 polypeptide at a certain concentration of a test compound or in the absence of said test compound, and
 - ii) determining the activity of said polypeptide at a different concentration of said test compound.
- 3. (currently amended) A method of screening for therapeutic agents useful in the treatment of a disease emprised in a group of diseases consisting of cardiovascular disorders, hematological disorders, inflammatory diseases, metabolic diseases, neurological disorders, urological disorders, respiratory diseases, cancer disorders and reproduction disorders in a mammal, comprising the steps of
 - i) determining the activity of a GPR85 polypeptide at a certain concentration

of a test compound, and

- ii) determining the activity of a GPR85 polypeptide at the presence of a compound known to be a regulator of a GPR85 polypeptide.
- 4. (currently amended) The method of <u>claim 1</u> any of claims 1 to 3, wherein the step of contacting is in or at the surface of a cell.
- 5. (currently amended) The method of <u>claim 1</u> any of claims 1 to 3, wherein the cell is *in vitro*.
- 6. (currently amended) The method of <u>claim 1</u> any of claims 1 to 3, wherein the step of contacting is in a cell-free system.
- 7. (currently amended) The method of <u>claim 1</u> any of <u>claims 1 to 3</u>, wherein the polypeptide is coupled to a detectable label.
- 8. (currently amended) The method of <u>claim 1</u> any of claims 1 to 3, wherein the compound is coupled to a detectable label.
- 9. (currently amended) The method of <u>claim 1</u> any of claims 1 to 3, wherein the test compound displaces a ligand which is first bound to the polypeptide.
- 10. (currently amended) The method of <u>claim 1</u> any of claims 1 to 3, wherein the polypeptide is attached to a solid support.
- 11. (currently amended) The method of <u>claim 1</u> any-of-claims 1 to 3, wherein the compound is attached to a solid support.
- 12. (currently amended) A method of screening for therapeutic agents useful in the treatment of a disease selected from the group comprised in a group-of-diseases consisting of cardiovascular disorders, hematological disorders, inflammatory diseases, metabolic diseases, neurological disorders, urological disorders, respiratory diseases, cancer disorders and

reproduction disorders in a mammal, comprising the steps of

- i) contacting a test compound with a GPR85 polynucleotide, and
- ii) <u>detecting</u> detect binding of said test compound to said GPR85 polynucleotide.
- 13. (original) The method of claim 12 wherein the nucleic acid molecule is RNA.
- 14. (original) The method of claim 12 wherein the contacting step is in or at the surface of a cell.
- 15. (original) The method of claim 12 wherein the contacting step is in a cell-free system.
- 16. (original) The method of claim 12 wherein polynucleotide is coupled to a detectable label.
- 17. (original) The method of claim 12 wherein the test compound is coupled to a detectable label.
- 18. (currently amended) A method of diagnosing a disease <u>selected from the group</u> comprised in a group of diseases consisting of cardiovascular disorders, hematological disorders, inflammatory diseases, metabolic diseases, neurological disorders, urological disorders, respiratory diseases, cancer disorders and reproduction disorders in a mammal comprising the steps of
- i) determining the amount of a GPR85 polynucleotide in a sample taken from said mammal, and
- ii) determining the amount of GPR85 polynucleotide in healthy and/or diseased mammals.

19-20. (canceled)

- 21. (currently amended) A pharmaceutical composition for the treatment of a disease selected from the group comprised in a group of diseases consisting of cardiovascular disorders, hematological disorders, inflammatory diseases, metabolic diseases, neurological disorders, urological disorders, respiratory diseases, cancer disorders and reproduction disorders in a mammal, comprising a therapeutic agent which regulates the activity of a GPR85 polypeptide, wherein said therapeutic agent is
 - i) a small molecule,
 - ii) an RNA molecule,
 - iii) an antisense oligonucleotide,
 - iv) a polypeptide,
 - v) an antibody, or
 - vi) a ribozyme.
- 22. (currently amended) A pharmaceutical composition for the treatment of a disease selected from the group comprised in a group of diseases consisting of cardiovascular disorders, hematological disorders, inflammatory diseases, metabolic diseases, neurological disorders, urological disorders, respiratory diseases, cancer disorders and reproduction disorders in a mammal, comprising a GPR85 polynucleotide.
- 23. (currently amended) A pharmaceutical composition for the treatment of a disease selected from the group comprised in a group of diseases consisting of cardiovascular disorders, hematological disorders, inflammatory diseases, metabolic diseases, neurological disorders, urological disorders, respiratory diseases, cancer disorders and reproduction disorders in a mammal, comprising a GPR85 polypeptide.

24-26. (canceled)